

## Refine Search

### Search Results -

Terms	Documents
(THERMAL ENERGY OR HEAT) AND OXID\$6 AROMATIC CARBOXYLIC ACID	32

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L2

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Tuesday, October 12, 2004   [Printable Copy](#)   [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<u>L2</u>	(THERMAL ENERGY OR HEAT) AND OXID\$6 AROMATIC CARBOXYLIC ACID	32	<u>L2</u>
<u>L1</u>	THERMAL ENERGY AND AROMATIC CARBOXYLIC ACID	318	<u>L1</u>

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**Database:**

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US Patents Full-Text Database  
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**Search:**

L6

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### Search History

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L6</u>	L4 and enthalpy	0	<u>L6</u>
<u>L5</u>	L4 and working fluid	0	<u>L5</u>
<u>L4</u>	L1 and 562/\$	19	<u>L4</u>
<u>L3</u>	L1 and (rankine cycle or kallina cycle)	0	<u>L3</u>
<u>L2</u>	L1 and power cycle	0	<u>L2</u>
<u>L1</u>	terephthalic acid and thermal energy	519	<u>L1</u>

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Search Results - Record(s) 1 through 10 of 32 returned.

☐ 1. Document ID: US 20040199006 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 32

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Oliver, Raymond	Stockton On Tees		GB	
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	
Ilkenhans, Thomas	Cambridge		GB	

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040069637 A1

L2: Entry 2 of 32

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040069637

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040069637 A1

TITLE: Electrodepositable coating compositions and related methods

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Eswarakrishnan, Venkatachalam	Allison Park	PA	US	
Kaylo, Alan J.	Glenshaw	PA	US	

McCollum, Gregory J. Gibsonia PA US  
Buskirk, Ellor James Wexford PA US

US-CL-CURRENT: 204/489; 106/147.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20020193629 A1

L2: Entry 3 of 32

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020193629  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020193629 A1

TITLE: PROCESS FOR PRODUCTION OF AROMATIC CARBOXYLIC ACIDS WITH IMPROVED WATER  
REMOVAL TECHNIQUE

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miller, Harold David JR.	Kingsport	TN	US	
Lin, Robert	Kingsport	TN	US	
de Vreede, Marcel	Poortugaal		NL	

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20020028968 A1

L2: Entry 4 of 32

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Ilkenhans, Thomas	Cambridge		GB	
Oliver, Raymond	Stockton on Tees		GB	
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20010041811 A1

L2: Entry 5 of 32

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041811

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010041811 A1

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sikkenga, David L.	Wheaton	IL	US	
Pandya, Alpen K.	Naperville	IL	US	
Zaenger, Ian C.	Naperville	IL	US	
Abrams, Kenneth J.	Naperville	IL	US	
Bartos, Thomas M.	Naperville	IL	US	

US-CL-CURRENT: 562/416; 562/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☒ 6. Document ID: US 6765113 B2

L2: Entry 6 of 32

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 6562997 B2

L2: Entry 7 of 32

File: USPT

May 13, 2003

US-PAT-NO: 6562997

DOCUMENT-IDENTIFIER: US 6562997 B2

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 6528683 B1

L2: Entry 8 of 32

File: USPT

Mar 4, 2003

US-PAT-NO: 6528683

DOCUMENT-IDENTIFIER: US 6528683 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for producing shell catalysts for the catalytic vapor-phase oxidation of aromatic hydrocarbons and catalysts obtained in such a manner

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☒ 9. Document ID: US 6504051 B1

L2: Entry 9 of 32

File: USPT

Jan 7, 2003

US-PAT-NO: 6504051

DOCUMENT-IDENTIFIER: US 6504051 B1

TITLE: Process for production of aromatic carboxylic acids with improved water removal technique

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 6255510 B1

L2: Entry 10 of 32

File: USPT

Jul 3, 2001

US-PAT-NO: 6255510

DOCUMENT-IDENTIFIER: US 6255510 B1

TITLE: Production of aromatic carboxylic acids and recovery of Co/Mn catalyst from ash

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☒ 11. Document ID: US 6143925 A

Using default format because multiple data bases are involved.

L2: Entry 11 of 32

File: USPT

Nov 7, 2000

US-PAT-NO: 6143925

DOCUMENT-IDENTIFIER: US 6143925 A

TITLE: Process for producing aromatic carboxylic acid

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tomitaka; Tadashi	Ohtake			JP
Umeda; Michio	Ohtake			JP
Iwata; Hideaki	Chiba			JP
Nakao; Fujimasa	Ohtake			JP

US-CL-CURRENT: 562/412; 562/409

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 5880313 A

L2: Entry 12 of 32

File: USPT

Mar 9, 1999

US-PAT-NO: 5880313

DOCUMENT-IDENTIFIER: US 5880313 A

TITLE: Process for producing aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 5510521 A

L2: Entry 13 of 32

File: USPT

Apr 23, 1996

US-PAT-NO: 5510521

DOCUMENT-IDENTIFIER: US 5510521 A



TITLE: Process for the production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw. De
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☐ 14. Document ID: US 5292934 A

L2: Entry 14 of 32

File: USPT

Mar 8, 1994

US-PAT-NO: 5292934

DOCUMENT-IDENTIFIER: US 5292934 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for preparing aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw. De
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☐ 15. Document ID: US 5169892 A

L2: Entry 15 of 32

File: USPT

Dec 8, 1992

US-PAT-NO: 5169892

DOCUMENT-IDENTIFIER: US 5169892 A

TITLE: Polyphenylene sulfide resin composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw. De
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☐ 16. Document ID: US 5087741 A

L2: Entry 16 of 32

File: USPT

Feb 11, 1992

US-PAT-NO: 5087741

DOCUMENT-IDENTIFIER: US 5087741 A

TITLE: Continuous production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw. De
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☐ 17. Document ID: US 4914230 A

L2: Entry 17 of 32

File: USPT

Apr 3, 1990

US-PAT-NO: 4914230

DOCUMENT-IDENTIFIER: US 4914230 A

TITLE: Catalyst recovery method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw. De
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☐ 18. Document ID: US 4826906 A

L2: Entry 18 of 32

File: USPT

May 2, 1989

US-PAT-NO: 4826906

DOCUMENT-IDENTIFIER: US 4826906 A

TITLE: Poly(arylene thioether-ketone) compositions improved in both melt stability and crystallinity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 4792621 A

L2: Entry 19 of 32

File: USPT

Dec 20, 1988

US-PAT-NO: 4792621

DOCUMENT-IDENTIFIER: US 4792621 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for continuous production of aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 4769489 A

L2: Entry 20 of 32

File: USPT

Sep 6, 1988

US-PAT-NO: 4769489

DOCUMENT-IDENTIFIER: US 4769489 A

TITLE: Catalyst recovery method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☒ 21. Document ID: US 4277630 A

Using default format because multiple data bases are involved.

L2: Entry 21 of 32

File: USPT

Jul 7, 1981

US-PAT-NO: 4277630

DOCUMENT-IDENTIFIER: US 4277630 A

TITLE: Catalyst and process for producing aromatic hydroxy compounds

DATE-ISSUED: July 7, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gelbein; Abraham P.	Plainfield	NJ		
Khonsari; Ali M.	Bloomfield	NJ		

US-CL-CURRENT: 568/801; 568/802

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Attachment	Claims	KMC	Draw De
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☐ 22. Document ID: US 4230885 A

L2: Entry 22 of 32

File: USPT

Oct 28, 1980

US-PAT-NO: 4230885

DOCUMENT-IDENTIFIER: US 4230885 A

TITLE: Conversion of aromatic carboxylates to terephthalate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Attachment	Claims	KMC	Draw De
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☐ 23. Document ID: US 3979448 A

L2: Entry 23 of 32

File: USPT

Sep 7, 1976

US-PAT-NO: 3979448

DOCUMENT-IDENTIFIER: US 3979448 A

TITLE: Processes for the continuous production of aromatic carboxylic acids by oxidation with nitric acid of aromatic compounds containing oxidizable acyclic substituents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw. De
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☐ 24. Document ID: JP 02058568 A

L2: Entry 24 of 32

File: JPAB

Feb 27, 1990

PUB-NO: JP402058568A

DOCUMENT-IDENTIFIER: JP 02058568 A

TITLE: POLYARYLENE THIOETHER KETONE COMPOSITION HAVING IMPROVED MELT-STABILITY AND CRYSTALLINITY

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw. De
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☐ 25. Document ID: JP 56025126 A

L2: Entry 25 of 32

File: JPAB

Mar 10, 1981

PUB-NO: JP356025126A

DOCUMENT-IDENTIFIER: JP 56025126 A

TITLE: PREPARATION OF PHENOLS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw. De
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☐ 26. Document ID: JP 2002088014 A

L2: Entry 26 of 32

File: DWPI

Mar 27, 2002

DERWENT-ACC-NO: 2002-630168

DERWENT-WEEK: 200421

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TITLE: Manufacture of carbocyclic ring type aromatic carboxylic acid used as synthetic intermediate for pharmaceutical, involves heating carbocyclic ring type aromatic aldehyde in presence of alkali metal hydroxide

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMOC	Draw. De
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☐ 27. Document ID: JP 05085058 A

L2: Entry 27 of 32

File: DWPI

Apr 6, 1993

DERWENT-ACC-NO: 1993-148873

DERWENT-WEEK: 199318

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TITLE: Heat-sensitive recording material for train ticket, etc. - has colouring layer contg. colourless pre-dye, colour developer, 4,4'-bis(1-aziridino:carbonyl:amino)di:phenyl methane and dispersion of zinc oxide and aromatic carboxylic acid



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 28. Document ID: EP 296877 A, US 4826906 A, JP 02058568 A, EP 296877 B1, DE 3852787 G, CA 1335853 C

L2: Entry 28 of 32

File: DWPI

Dec 28, 1988

DERWENT-ACC-NO: 1989-001328

DERWENT-WEEK: 199741

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TITLE: Melt-stable polyarylene thioether ketone compsns. - contain Gp=IA or Gp=IIA metal salt as stabiliser, for min loss or crystallinity on melt-processing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 29. Document ID: US 3171856 A

L2: Entry 29 of 32

File: USOC

Mar 2, 1965

US-PAT-NO: 3171856

DOCUMENT-IDENTIFIER: US 3171856 A

TITLE: Acid purification process

DATE-ISSUED: March 2, 1965

INVENTOR-NAME: KURTZ KERWIN K

US-CL-CURRENT: 562/486; 562/414, 562/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 30. Document ID: US 3089907 A

L2: Entry 30 of 32

File: USOC

May 14, 1963

US-PAT-NO: 3089907

DOCUMENT-IDENTIFIER: US 3089907 A

TITLE: Pressure controlled liquid phase oxidation process for aromatic acid production

DATE-ISSUED: May 14, 1963

INVENTOR-NAME: ALFRED SAFFER; BARKER ROBERT S

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 31. Document ID: US 3089906 A

Using default format because multiple data bases are involved.

L2: Entry 31 of 32

File: USOC

May 14, 1963

US-PAT-NO: 3089906

DOCUMENT-IDENTIFIER: US 3089906 A

TITLE: Oxidation chemical process

DATE-ISSUED: May 14, 1963

INVENTOR-NAME: ALFRED SAFFER; BARKER ROBERT S

US-CL-CURRENT: 562/414, 562/416, 562/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 32. Document ID: US 3069462 A

L2: Entry 32 of 32

File: USOC

Dec 18, 1962

US-PAT-NO: 3069462

DOCUMENT-IDENTIFIER: US 3069462 A

TITLE: Oxidation of aromatic compounds

DATE-ISSUED: December 18, 1962

INVENTOR-NAME: ALFRED SAFFER; BARKER ROBERT S

US-CL-CURRENT: 562/416, 502/224, 562/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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